

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus for processing data on a data carrier which rotates about an axis and on which tracks are provided for containing said data, said track spiraling around a center, said apparatus comprising:

an angle measuring device from which said angle information is derived, the angle measuring device including an eccentricity measurer sensitive to non-coincidence of said axis and said center;

a PID operator for the tracking of a beam on the track, said PID operator comprising an I operator, wherein said eccentricity measurer takes account of the a signal at the an output of the I operator; and

a peak/bottom detector at the output of the I operator.

Claims 2-3 (Canceled)

4. (Previously Presented) The apparatus as claimed in claim 1, further comprising a frequency multiplier for providing pulses, wherein said frequency multiplier is linked to the output of the I operator, and wherein angular position information is derived from said frequency multiplier.

5. (Previously Presented) The apparatus as claimed in claim 1, wherein the PID operator acts on a radial tracking signal.

6. (Currently Amended) The apparatus as claimed in claim 1, wherein the PID operator acts on the a focusing signal.

7. (Currently Amended) A method of measuring an indication of the—an angle of a data carrier which rotates about an axis and on which a track is provided for containing said data, said track spiraling around a center, wherein the method utilizes a servo

mechanism for positioning a beam on the track, the method comprising the acts of:

analyzing the an error signal of said servomechanism servo mechanism,

detecting the eccentricity of the data carrier from this analysis,

deriving angular position information from the eccentricity defined by the non coincidence between the axis and the center,

using a filter comprising an I operator,

providing an output signal of said I operator to a peak/bottom detector, and

processing a detected output signal of said peak/bottom detector for providing said indication of the angular position information.

Claim 8 (Canceled)

9. (Currently Amended) A method of measuring an indication of an angle of a data carrier which rotates about an axis and on which

a track is provided for containing ~~said~~ data, said track spiraling around a center, wherein the method utilizes a servo mechanism for focusing a beam on the track, the method comprising the acts of:

analyzing an error signal of ~~said~~ servomechanism servo mechanism,

detecting repetitive disturbances of a focus signal,

providing an output signal of an I operator to a peak/bottom detector, and

processing ~~an~~ a detected output signal of said peak/bottom detector for deriving angular position information from these disturbances.

10. (New) The apparatus of claim 1, further comprising a frequency multiplier, wherein the peak/bottom detector outputs a detected output to the frequency multiplier for outputting pulses so that counting the pulses produces angular position information.

11. (New) The method of claim 10, wherein the detected output includes one pulse per revolution.

12. (New) The method of claim 7, wherein the processing act includes providing the detected output signal to a frequency multiplier for generating pulses, and counting the pulses to produce the angular position information.

13. (New) The method of claim 12, wherein the detected output includes one pulse per revolution.

14. (New) The method of claim 9, wherein the processing act includes providing the detected output signal to a frequency multiplier for generating pulses, and counting the pulses to produce the angular position information.

15. (New) The method of claim 14, wherein the detected output includes one pulse per revolution.